



SEQUENCE LISTING

<110> OWMAN, CHRISTER

<120> HEPTAHELIX RECEPTOR AND ITS USE AS LEUKOTRIENE B4
RECEPTOR

<130> 07675.0001-03 SEQUENCE LISTING

<140> 09/893,512

<141> 2001-06-29

<150> 60/061,789

<151> 1997-10-14

<150> 60/081,958

<151> 1998-04-15

<150> 09/170,069

<151> 1998-10-13

<160> 16

<170> PatentIn Ver. 2.1

<210> 1

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<212> DNA

<213> Homo sapiens

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Leu Pro Gly Asn Ser Phe Val Val Trp Ser Ile Leu Lys Arg Met Gln
 35 40 45

Lys Arg Ser Val Thr Ala Leu Met Val Leu Asn Leu Ala Leu Ala Asp
 50 55 60

Leu Ala Val Leu Leu Thr Ala Pro Phe Phe Leu His Phe Leu Ala Gln
 65 70 75 80

Gly Thr Trp Ser Phe Gly Leu Ala Gly Cys Arg Leu Cys His Tyr Val
 85 90 95

Cys Gly Val Ser Met Tyr Ala Ser Val Leu Leu Ile Thr Ala Met Ser
 100 105 110

Leu Asp Arg Ser Leu Ala Val Ala Arg Pro Phe Val Ser Gln Lys Leu
 115 120 125

Arg Thr Lys Ala Met Ala Arg Arg Val Leu Ala Gly Ile Trp Val Leu
 130 135 140

Ser Phe Leu Leu Ala Thr Pro Val Leu Ala Tyr Arg Thr Val Val Pro
 145 150 155 160

Trp	Lys	Thr	Asn	Met	Ser	Leu	Cys	Phe	Pro	Arg	Tyr	Pro	Ser	Glu	Gly
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His	Arg	Ala	Phe	His	Leu	Ile	Phe	Glu	Ala	Val	Thr	Gly	Phe	Leu	Leu
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Pro	Phe	Leu	Ala	Val	Val	Ala	Ser	Tyr	Ser	Asp	Ile	Gly	Arg	Arg	Leu
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Gln	Ala	Arg	Arg	Phe	Arg	Arg	Ser	Arg	Arg	Thr	Gly	Arg	Leu	Val	Val
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Leu	Ile	Ile	Leu	Thr	Phe	Ala	Ala	Phe	Trp	Leu	Pro	Tyr	His	Val	Val
225					230					235				240	
Asn	Leu	Ala	Glu	Ala	Gly	Arg	Ala	Leu	Ala	Gly	Gln	Ala	Ala	Gly	Leu
				245					250					255	
Gly	Leu	Val	Gly	Lys	Arg	Leu	Ser	Leu	Ala	Arg	Asn	Val	Leu	Ile	Ala
		260						265					270		
Leu	Ala	Phe	Leu	Ser	Ser	Ser	Val	Asn	Pro	Val	Leu	Tyr	Ala	Cys	Ala
		275					280					285			
Gly	Gly	Gly	Leu	Leu	Arg	Ser	Ala	Gly	Val	Gly	Phe	Val	Ala	Lys	Leu
	290					295					300				
Leu	Glu	Gly	Thr	Gly	Ser	Glu	Ala	Ser	Ser	Thr	Arg	Arg	Gly	Gly	Ser
305					310					315					320
Leu	Gly	Gln	Thr	Ala	Arg	Ser	Gly	Pro	Ala	Ala	Leu	Glu	Pro	Gly	Pro
				325					330					335	
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<212> DNA

<213> Homo sapiens

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<213> Homo sapiens

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<210> 6
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<212> DNA
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48

<210> 7
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<221> VARIANT
<222> (3)
<223> Xaa at position 3 is any amino acid

<400> 7
Gly Asn Xaa Leu Val Val Leu Val
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<213> Homo sapiens

<220>
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<223> Xaa at position 6 is any amino acid

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<222> (13)
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<221> VARIANT
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Xaa Trp

<210> 9
<211> 350
<212> PRT
<213> Homo. sapiens

<400> 9
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20 25 30

Glu Thr Glu Thr Leu Asn Lys Tyr Val Val Ile Ile Ala Tyr Ala Leu
35 40 45

Val Phe Leu Leu Ser Leu Leu Gly Asn Ser Leu Val Met Leu Val Ile
50 55 60

Leu Tyr Ser Arg Val Gly Arg Ser Val Thr Asp Val Tyr Leu Leu Asn
65 70 75 80

Leu Ala Leu Ala Asp Leu Leu Phe Ala Leu Thr Leu Pro Ile Trp Ala
85 90 95

Ala Ser Lys Val Asn Gly Trp Ile Phe Gly Thr Phe Leu Cys Lys Val
100 105 110

Val Ser Leu Leu Lys Glu Val Asn Phe Tyr Ser Gly Ile Leu Leu Leu
115 120 125

Ala Cys Ile Ser Val Asp Arg Tyr Leu Ala Ile Val His Ala Thr Arg
130 135 140

Thr Leu Thr Gln Lys Arg His Leu Val Lys Phe Val Cys Leu Gly Cys
145 150 155 160

Trp Gly Leu Ser Met Asn Leu Ser Leu Pro Phe Phe Leu Phe Arg Gln
165 170 175

Ala Tyr His Pro Asn Asn Ser Ser Pro Val Cys Tyr Glu Val Leu Gly
180 185 190

Asn Asp Thr Ala Lys Trp Arg Met Val Leu Arg Ile Leu Pro His Thr
195 200 205

Phe Gly Phe Ile Val Pro Leu Phe Val Met Leu Phe Cys Tyr Gly Phe
210 215 220

Thr Leu Arg Thr Leu Phe Lys Ala His Met Gly Gln Lys His Arg Ala
225 230 235 240

Met Arg Val Ile Phe Ala Val Val Leu Ile Phe Leu Leu Cys Trp Leu
245 250 255

Pro Tyr Asn Leu Val Leu Leu Ala Asp Thr Leu Met Arg Thr Gln Val
260 265 270

Ile Gln Glu Thr Cys Glu Arg Arg Asn Asn Ile Gly Arg Ala Leu Asp
275 280 285

Ala Thr Glu Ile Leu Gly Phe Leu His Ser Cys Leu Asn Pro Ile Ile
290 295 300

Tyr Ala Phe Ile Gly Gln Asn Phe Arg His Gly Phe Leu Lys Ile Leu
 305 310 315 320

Ala Met His Gly Leu Val Ser Lys Glu Phe Leu Ala Arg His Arg Val
 325 330 335

Thr Ser Tyr Thr Ser Ser Ser Val Asn Val Ser Ser Asn Leu
 340 345 350

<210> 10

<211> 355

<212> PRT

<213> Homo sapiens

<400> 10

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 20 25 30

Pro Cys Glu Pro Glu Ser Leu Glu Ile Asn Lys Tyr Phe Val Val Ile
 35 40 45

Ile Tyr Ala Leu Val Phe Leu Leu Ser Leu Leu Gly Asn Ser Leu Val
 50 55 60

Met Leu Val Ile Leu Tyr Ser Arg Val Gly Arg Ser Val Thr Asp Val
 65 70 75 80

Tyr Leu Leu Asn Leu Ala Leu Ala Asp Leu Leu Phe Ala Leu Thr Leu
 85 90 95

Pro Ile Trp Ala Ala Ser Lys Val Asn Gly Trp Ile Phe Gly Thr Phe
 100 105 110

Leu Cys Lys Val Val Ser Leu Leu Lys Glu Val Asn Phe Tyr Ser Gly
 115 120 125

Ile Leu Leu Leu Ala Cys Ile Ser Val Asp Arg Tyr Leu Ala Ile Val
 130 135 140

His Ala Thr Arg Thr Leu Thr Gln Lys Arg Tyr Leu Val Lys Phe Ile
 145 150 155 160

Cys Leu Ser Ile Trp Gly Leu Ser Leu Leu Leu Ala Leu Pro Val Leu

Asp Tyr Gly Asp Ala Thr Pro Cys Gln Lys Val Asn Glu Arg Ala Phe
 20 25 30
 Gly Ala Gln Leu Leu Pro Pro Leu Tyr Ser Leu Val Phe Val Ile Gly
 35 40 45
 Leu Val Gly Asn Ile Leu Val Val Leu Val Leu Val Gln Tyr Lys Arg
 50 55 60
 Leu Lys Asn Met Thr Ser Ile Tyr Leu Leu Asn Leu Ala Ile Ser Asp
 65 70 75 80
 Leu Leu Phe Leu Phe Thr Leu Pro Phe Trp Ile Asp Tyr Lys Leu Lys
 85 90 95
 Asp Asp Trp Val Phe Gly Asp Ala Met Cys Lys Ile Leu Ser Gly Phe
 100 105 110
 Tyr Tyr Thr Gly Leu Tyr Ser Glu Ile Phe Phe Ile Ile Leu Leu Thr
 115 120 125
 Ile Asp Arg Tyr Leu Ala Ile Val His Ala Val Phe Ala Leu Arg Ala
 130 135 140
 Arg Thr Val Thr Phe Gly Val Ile Thr Ser Ile Ile Ile Trp Ala Leu
 145 150 155 160
 Ala Ile Leu Ala Ser Met Pro Gly Leu Tyr Phe Ser Lys Thr Gln Trp
 165 170 175
 Glu Phe Thr His His Thr Cys Ser Leu His Phe Pro His Glu Ser Leu
 180 185 190
 Arg Glu Trp Lys Leu Phe Gln Ala Leu Lys Leu Asn Leu Phe Gly Leu
 195 200 205
 Val Leu Pro Leu Leu Val Met Ile Ile Cys Tyr Thr Gly Ile Ile Lys
 210 215 220
 Ile Leu Leu Arg Arg Pro Asn Glu Lys Lys Ser Lys Ala Val Arg Leu
 225 230 235 240
 Ile Phe Val Ile Met Ile Ile Phe Phe Leu Phe Trp Thr Pro Tyr Asn
 245 250 255
 Leu Thr Ile Leu Ile Ser Val Phe Gln Asp Phe Leu Phe Thr His Glu
 260 265 270

Cys Glu Gln Ser Arg His Leu Asp Leu Ala Val Gln Val Thr Glu Val
 275 280 285

Ile Ala Tyr Thr His Cys Cys Val Asn Pro Val Ile Tyr Ala Phe Val
 290 295 300

Gly Glu Arg Phe Arg Lys Tyr Leu Arg Gln Leu Phe His Arg Arg Val
 305 310 315 320

Ala Val His Leu Val Lys Trp Leu Pro Phe Leu Ser Val Asp Arg Leu
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Glu Arg Val Ser Ser Thr Ser Pro Ser Thr Gly Glu His Glu Leu Ser
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Ala Gly Phe
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<213> Homo sapiens

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Arg Ala Phe Gly Ala Gln Leu Leu Pro Pro Leu Tyr Ser Leu Val Phe
 35 40 45

Val Ile Gly Leu Val Pro Glu Pro Gly Asn Ile Leu Val Val Leu Val
 50 55 60

Leu Val Gln Tyr Lys Arg Leu Lys Asn Met Thr Ser Ile Tyr Leu Leu
 65 70 75 80

Asn Leu Ala Ile Ser Asp Leu Leu Phe Leu Phe Thr Leu Pro Phe Trp
 85 90 95

Ile Asp Tyr Lys Leu Lys Asp Asp Trp Val Pro Glu Pro Phe Gly Asp
 100 105 110

Ala Met Cys Lys Ile Leu Ser Gly Phe Tyr Tyr Thr Gly Leu Tyr Ser
 115 120 125

Glu Ile Phe Phe Ile Ile Leu Leu Thr Ile Asp Arg Tyr Leu Ala Ile
 130 135 140

Val His Ala Val Phe Ala Leu Arg Ala Arg Thr Val Thr Phe Gly Pro
 145 150 155 160

Glu Pro Val Ile Thr Ser Ile Ile Ile Trp Ala Leu Ala Ile Leu Ala
 165 170 175

Ser Met Pro Gly Leu Tyr Phe Ser Lys Thr Gln Trp Glu Phe Thr His
 180 185 190

His Thr Cys Ser Leu His Phe Pro His Glu Ser Leu Arg Glu Trp Lys
 195 200 205

Leu Phe Gln Ala Pro Glu Pro Leu Lys Leu Asn Leu Phe Gly Leu Val
 210 215 220

Leu Pro Leu Leu Val Met Ile Ile Cys Tyr Thr Gly Ile Ile Lys Ile
 225 230 235 240

Leu Leu Arg Arg Pro Asn Glu Lys Lys Ser Lys Ala Val Arg Leu Ile
 245 250 255

Phe Val Ile Met Ile Ile Phe Phe Leu Pro Glu Pro Phe Trp Thr Pro
 260 265 270

Tyr Asn Leu Thr Ile Leu Ile Ser Val Phe Gln Asp Phe Leu Phe Thr
 275 280 285

His Glu Cys Glu Gln Ser Arg His Leu Asp Leu Ala Val Gln Val Thr
 290 295 300

Glu Val Ile Ala Tyr Thr His Cys Cys Val Asn Pro Val Ile Pro Glu
 305 310 315 320

Pro Tyr Ala Phe Val Gly Glu Arg Phe Arg Lys Tyr Leu Arg Gln Leu
 325 330 335

Phe His Arg Arg Val Ala Val His Leu Val Lys Trp Leu Pro Phe Leu
 340 345 350

Ser Val Asp Arg Leu Asp Arg Val Ser Ser Thr Ser Pro Ser Thr Gly
 355 360 365

Glu His Glu Pro Glu Pro Leu Ser Ala Gly Phe
 370 375

210	215	220
Ile Leu Lys Thr Leu Leu Arg Cys Arg Asn Glu Lys Lys Arg His Arg		
225	230	235 240
Ala Val Arg Val Ile Phe Thr Ile Met Ile Val Tyr Phe Leu Phe Trp		
	245	250 255
Thr Pro Tyr Asn Ile Val Ile Leu Leu Asn Thr Phe Gln Glu Phe Phe		
	260	265 270
Gly Leu Ser Asn Cys Glu Ser Thr Ser Gln Leu Asp Gln Ala Thr Gln		
	275	280 285
Val Thr Glu Thr Leu Gly Met Thr His Cys Cys Ile Asn Pro Ile Ile		
	290	295 300
Tyr Ala Phe Val Gly Glu Lys Phe Arg Ser Leu Phe His Ile Ala Leu		
	305	310 315 320
Gly Cys Arg Ile Ala Pro Leu Gln Lys Pro Val Cys Gly Gly Pro Gly		
	325	330 335
Val Arg Pro Gly Lys Asn Val Lys Val Thr Thr Gln Gly Leu Leu Asp		
	340	345 350
Gly Arg Gly Lys Gly Lys Ser Ile Gly Arg Ala Pro Glu Ala Ser Leu		
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Gln Asp Lys Glu Gly Ala		
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<210> 14

<211> 384

<212> PRT

<213> Homo sapiens

<400> 14

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Ala Pro Cys His Lys Phe Asp Val Lys Gln Ile Gly Ala Gln Leu Leu
35 40 45

Pro Pro Leu Tyr Ser Pro Glu Pro Leu Val Phe Ile Phe Gly Phe Val
 50 55 60

Gly Asn Met Leu Val Val Leu Ile Leu Ile Asn Cys Lys Lys Leu Lys
 65 70 75 80

Cys Leu Thr Asp Ile Tyr Leu Leu Asn Leu Ala Ile Ser Asp Leu Leu
 85 90 95

Phe Leu Ile Thr Leu Pro Leu Trp Ala His Pro Glu Pro Ser Ala Ala
 100 105 110

Asn Glu Trp Val Phe Gly Asn Ala Met Cys Lys Leu Phe Thr Gly Leu
 115 120 125

Tyr His Ile Gly Tyr Phe Gly Gly Ile Phe Phe Ile Ile Leu Leu Thr
 130 135 140

Ile Asp Arg Tyr Leu Ala Ile Val His Ala Val Phe Ala Leu Lys Pro
 145 150 155 160

Glu Pro Ala Arg Thr Val Thr Phe Gly Val Val Thr Ser Val Ile Thr
 165 170 175

Trp Leu Val Ala Val Phe Ala Ser Val Pro Gly Ile Ile Phe Thr Lys
 180 185 190

Cys Gln Lys Glu Asp Ser Val Tyr Val Cys Gly Pro Tyr Phe Pro Arg
 195 200 205

Gly Trp Asn Asn Pro Glu Pro Phe His Thr Ile Met Arg Asn Ile Leu
 210 215 220

Gly Leu Val Leu Pro Leu Leu Ile Met Val Ile Cys Tyr Ser Gly Ile
 225 230 235 240

Leu Lys Thr Leu Leu Arg Cys Arg Asn Glu Lys Lys Arg His Arg Ala
 245 250 255

Val Arg Val Ile Phe Thr Ile Met Ile Pro Glu Pro Val Tyr Phe Leu
 260 265 270

Phe Trp Thr Pro Tyr Asn Ile Val Ile Leu Leu Asn Thr Phe Gln Glu
 275 280 285

Phe Phe Gly Leu Ser Asn Cys Glu Ser Thr Ser Gln Leu Asp Gln Ala
 290 295 300

Thr Gln Val Thr Glu Thr Leu Gly Met Thr His Cys Cys Ile Pro Glu
 305 310 315 320

Pro Asn Pro Ile Ile Tyr Ala Phe Val Gly Glu Lys Phe Arg Arg Tyr
 325 330 335

Leu Ser Val Phe Phe Arg Lys His Ile Thr Lys Arg Phe Cys Lys Gln
 340 345 350

Cys Pro Val Phe Tyr Arg Glu Thr Val Asp Gly Val Thr Ser Thr Asn
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Thr Pro Ser Pro Glu Pro Thr Gly Glu Gln Glu Val Ser Ala Gly Leu
 370 375 380

<210> 15

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<212> PRT

<213> Homo sapiens

<400> 15

Met Asn Ser Phe Asn Tyr Thr Thr Pro Asp Tyr Gly His Tyr Asp Asp
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Lys Asp Thr Leu Asp Leu Asn Thr Pro Val Asp Lys Thr Ser Asn Thr
 20 25 30

Leu Arg Val Pro Asp Ile Leu Ala Leu Val Ile Phe Ala Val Val Phe
 35 40 45

Leu Val Gly Val Leu Gly Asn Ala Leu Val Val Trp Val Thr Ala Phe
 50 55 60

Glu Ala Lys Arg Thr Ile Asn Ala Ile Trp Phe Leu Asn Leu Ala Val
 65 70 75 80

Ala Asp Phe Leu Ser Cys Leu Ala Leu Pro Ile Leu Phe Thr Ser Ile
 85 90 95

Val Gln His His His Trp Pro Phe Gly Gly Ala Ala Cys Ser Ile Leu
 100 105 110

Pro Ser Leu Ile Leu Leu Asn Met Tyr Ala Ser Ile Leu Leu Leu Ala
 115 120 125

Thr Ile Ser Ala Asp Arg Phe Leu Leu Val Phe Lys Pro Ile Trp Cys
 130 135 140
 Gln Asn Phe Arg Gly Ala Gly Leu Ala Trp Ile Ala Cys Ala Val Ala
 145 150 155 160
 Trp Gly Leu Ala Leu Leu Leu Thr Ile Pro Ser Phe Leu Tyr Arg Val
 165 170 175
 Val Arg Glu Glu Tyr Phe Pro Pro Lys Val Leu Cys Gly Val Asp Tyr
 180 185 190
 Ser His Asp Lys Arg Arg Glu Arg Ala Val Ala Ile Val Arg Leu Val
 195 200 205
 Leu Gly Phe Leu Trp Pro Leu Leu Thr Leu Thr Ile Cys Tyr Thr Phe
 210 215 220
 Ile Leu Leu Arg Thr Trp Ser Arg Arg Ala Thr Arg Ser Thr Lys Thr
 225 230 235 240
 Leu Lys Val Val Val Ala Val Val Ala Ser Phe Phe Ile Phe Trp Leu
 245 250 255
 Pro Tyr Gln Val Thr Gly Ile Met Met Ser Phe Leu Glu Pro Ser Ser
 260 265 270
 Pro Thr Phe Leu Leu Leu Asn Lys Leu Asp Ser Leu Cys Val Ser Phe
 275 280 285
 Ala Tyr Ile Asn Cys Cys Ile Asn Pro Ile Ile Tyr Val Val Ala Gly
 290 295 300
 Gln Gly Phe Gln Gly Arg Leu Arg Lys Ser Leu Pro Ser Leu Leu Arg
 305 310 315 320
 Asn Val Leu Thr Glu Glu Ser Val Val Arg Glu Ser Lys Ser Phe Thr
 325 330 335
 Arg Ser Thr Val Asp Thr Met Ala Gln Lys Thr Gln Ala Val
 340 345 350

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 <212> PRT
 <213> Homo sapiens

<400> 16

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Ala Val Ser Ala Gly Tyr Leu Phe Leu Asp Ile Ile Thr Tyr Leu Val
20 25 30

Phe Ala Val Thr Phe Val Leu Gly Val Leu Gly Asn Gly Leu Val Ile
35 40 45

Trp Val Ala Gly Phe Arg Met Thr His Thr Val Thr Thr Ile Ser Tyr
50 55 60

Leu Asn Leu Ala Val Ala Asp Phe Cys Phe Thr Ser Thr Leu Pro Phe
65 70 75 80

Phe Met Val Arg Lys Ala Met Gly Gly His Trp Pro Phe Gly Trp Phe
85 90 95

Leu Cys Lys Phe Leu Phe Thr Ile Val Asp Ile Asn Leu Phe Gly Ser
100 105 110

Val Phe Leu Ile Ala Leu Ile Ala Leu Asp Arg Cys Val Cys Val Leu
115 120 125

His Pro Val Trp Thr Gln Asn His Arg Thr Val Ser Leu Ala Lys Lys
130 135 140

Val Ile Ile Gly Pro Trp Val Met Ala Leu Leu Leu Thr Leu Pro Val
145 150 155 160

Ile Ile Arg Val Thr Thr Val Pro Gly Lys Thr Gly Thr Val Ala Cys
165 170 175

Thr Phe Asn Phe Ser Pro Trp Thr Asn Asp Pro Lys Glu Arg Ile Asn
180 185 190

Val Ala Val Ala Met Leu Thr Val Arg Gly Ile Ile Arg Phe Ile Ile
195 200 205

Gly Phe Ser Ala Pro Met Ser Ile Val Ala Val Ser Tyr Gly Leu Ile
210 215 220

Ala Thr Lys Ile His Lys Gln Gly Leu Ile Lys Ser Ser Arg Pro Leu
225 230 235 240

Arg Val Leu Ser Phe Val Ala Ala Ala Phe Phe Leu Cys Trp Ser Pro

245							250							255		
Tyr	Gln	Val	Val	Ala	Leu	Ile	Ala	Thr	Val	Arg	Ile	Arg	Glu	Leu	Leu	
260							265							270		
Gln	Gly	Met	Tyr	Lys	Glu	Ile	Gly	Ile	Ala	Val	Asp	Val	Thr	Ser	Ala	
275							280							285		
Leu	Ala	Phe	Phe	Asn	Ser	Cys	Leu	Asn	Pro	Met	Leu	Tyr	Val	Phe	Met	
290							295							300		
Gly	Gln	Asp	Phe	Arg	Glu	Arg	Leu	Ile	His	Ala	Leu	Pro	Ala	Ser	Leu	
305							310							315		
Glu	Arg	Ala	Leu	Thr	Glu	Asp	Ser	Thr	Gln	Thr	Ser	Asp	Thr	Ala	Thr	
320							325							330		
Asn	Ser	Thr	Leu	Pro	Ser	Ala	Glu	Val	Ala	Leu	Gln	Ala	Lys	Cys		
335							340							345		
340							345							350		